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NEW EDITION.

UNITED STATES
ORTHOPEDIC INSTITUTE,
FOR THE APPLICATION OF
IMPROVED ANATOMICAL
MACHINERY
TO THE TREATMENT OF
EVERY VARIETY OF DEFORMITY.

OFFICE NO. 7 PHOENIX BLOCK,
South-West Corner of Second and Dock Streets.

PHILADELPHIA.

1860
GEORGE W. YERGER & JOHN F. ORD,
PROPRIETORS.



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The new Postage Bill becoming a law on the 1st of July, 1851, requires all pamphlets, &c., to be prepaid. Persons writing us for pamphlets, will bear in mind that in no case will they be sent unless a post office stamp accompanies the request.

ARTIFICIAL LIMBS.

THIS pamphlet is most respectfully presented to surgeons, physicians, and all who have been so unfortunate as to lose a limb, or are laboring under any of the following variety of deformities, viz:—*Weak or crushed ankle*, resulting in the loss of the ankle joint, or inability to throw the weight of the body on the front part of the foot, *club feet*, *contracted limbs*, *bow legs*, *knock-knees*, *curved*, or *projecting spine*, &c., &c. It is almost a daily complaint with surgeons that instruments made to meet the different varieties of deformity, are entirely insufficient to answer the purpose for which they are intended; this, connected with the fact that artificial limbs have heretofore existed only in the name, have induced Messrs. Yerger and Ord to establish a place for manufacturing and adapting their Metallic Skeleton Leg, and improved machinery for the treatment of deformities, all of which are constructed upon an entire new principle, in strict accordance with sound surgical authorities, and will be warranted in every case to accomplish fully the objects for which they are intended.

The first article to which we would invite particular attention, is our *Patent Metallic Skeleton Leg*—but before describing it, perhaps it would be well to say a few words on the defects of artificial legs as they have been and are now constructed, both in this country and in Europe. It is not our intention to criticise any particular make, but merely to give an outline of the principal objections urged against the whole. The first is their weight—full length legs of the most approved make, weighing from *six to eighteen pounds*, rendering it extremely laborious for a man to carry one, independent of accomplishing a hard day's work—which is, unfortunately, the lot of a majority who wear them.

Second, the total want of natural motion at the knee and ankle joints, which almost entirely prevents them from performing any other part than that of sustaining the weight of the body.

Third, and last, the utter impossibility of adapting them to the various forms of amputation, so that they can be worn with comfort, the confinement of the stump in tight wooden sockets allows an accumulation of hot air and moisture, thereby inducing excoriation and consequent ulceration, which is in many cases attended with the most serious consequences.

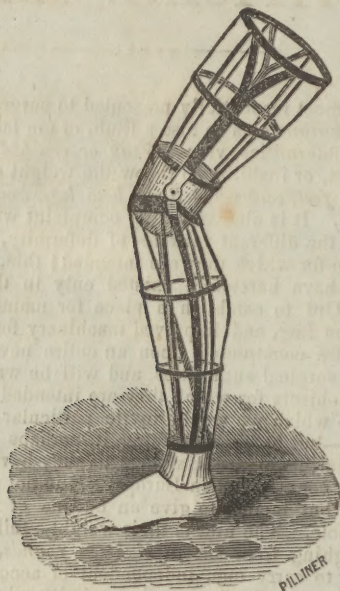
We will now proceed to notice and show the advantages possessed over all others, by

YERGER AND ORD'S PATENT METALLIC SKELETON LEG.

No stronger proof can be given of its superiority than the fact that it has been examined and approved of by a large number of scientific medical gentlemen, among whom we mention Dr. Paul B. Goddard, Professor of Anatomy in the Franklin Medical College, Philadelphia; Dr. J. Pancoast, Professor of Anatomy in the Jefferson Medical College, Philadelphia; and Dr. John H. B. M'Clellan, Surgeon to St. Joseph's Hospital, Philadelphia.

Dr. Valentine Mott, Professor of Surgery in the New York University; Dr. Willard Parker, Professor of Surgery in the New York College of Physicians and Surgeons; Dr. Ab'm. L. Cox, Professor of Surgery in the New York Medical College; and Dr. J. Kearny Rodgers, Surgeon to the New York Hospital.

The Metallic Skeleton Limb is *light, neat, strong, and durable*, all of the objections before mentioned being entirely overcome, it is constructed of steel ribs, and rings, or bands, united together upon the principle of a lattice bridge, or arch, one piece bracing and sustaining the other, rendering it capable of bearing any required weight; the socket or receptacle of the stump being open below, allows a free circulation of air, keeping it always cool and healthy, thereby preventing ulceration, which is almost invariably the consequence when the stump is confined in air tight sockets.



The motions of the knee and ankle joints approach so near to nature as to render it almost impossible to distinguish it from the natural limb, and it can be adapted to every form of amputation, and worn without the least difficulty.

We deem it unnecessary to enlarge upon the merits of our artificial limb, further than to say, that it is no longer an experiment; and the fact that we have now the largest establishment of the kind in the United States devoted to manufacturing purposes, is of itself, sufficient evidence, that *no substitute* for a lost limb has ever before gained so much celebrity in so comparatively short a time.

We sum up by boldly asserting, that it is the *only scientifically constructed artificial limb in existence*, and in point of *lightness, neatness, accuracy of motion, durability, ease and comfort to the wearer*, and every good qualification that is requisite, *it has no equal in the world.*

TESTIMONIALS.

We are almost daily receiving communications similar to the following, which is sufficient proof that our PATENT METALLIC SKELETON LEG, is performing all that was so sanguinely expected of it in the beginning.

The following is from a gentleman who had one of an approved make, previous to obtaining the Metallic Skeleton,—he has about *eight inches* of thigh.

Philadelphia, Nov. 12th, 1849.

MESSRS. YERGER AND ORD,

GENTS :—The *Metallic Skeleton Leg*, which you made for me some time ago, I have worn almost constantly since its application, and am happy to say that it answers my utmost expectations. With it I am enabled to follow my occupation, which is a very laborious one, without suffering the least inconvenience; in fact, previous to obtaining it, I did not believe, (judging from experience in artificial limbs,) that one could be so completely adapted to my case.

Yours, respectfully,

JAMES HILL, *East Kensington.*

Philadelphia, Nov. 23, 1849.

MESSRS. YERGER AND ORD,

GENTS :—The *Metallic Skeleton Leg*, which I obtained from you far exceeds my anticipations in every respect. My impression in reference to artificial limbs, previous to obtaining yours, was unfavorable. Had I been told that I would be able to accomplish what I now do, I could not have credited it. My business is a very laborious one—that of a machinist—but notwithstanding, I walk two miles every morning to my work, stand at the vice, and turn the lathe or grindstone with *either foot* all day, then walk home in the evening without suffering the least inconvenience from the wearing of it.

Yours, respectfully,

MASON W. MATLACK.

Mr. Matlack's limb is amputated about *five inches* below the knee, and he wore a peg leg for ten years previous to obtaining the *Metallic Skeleton*.

Yellow Springs, Blair County, April 11th, 1850.

MESSRS. YERGER AND ORD,

GENTLEMEN :—It is with a heart duly impressed with a sense of the obligations which I am under to you, that I have taken up my pen to write you, which if I neglected, I would neither obey the dictates of a truly grateful heart, nor gratify the emotions with which it is so indelibly impressed. * * * * *

The limb you made for me answers a most excellent purpose, *far beyond my most sanguine expectations*, the friend to whom the mission was intrusted to procure me a limb, was, I believe, *providentially* directed to your office. I say, *providentially*, because I do not believe I could walk with *any other* artificial limb but the metallic skeleton on account of the peculiar sensitiveness of the amputated limb which renders the end incapable of bearing the slightest pressure. * * * *

I have worn it but a short time, and notwithstanding the debilitated state of my system, *I can walk without the least assistance*, and I *feel confident* that if my strength becomes sufficiently restored, I can walk any where, with almost the same facility as if I had both my natural limbs. * * * * *

In conclusion, I would state, that I truly believe that as far as art can go, there is nothing more fully calculated to supply the loss of the natural limb than the *Patent Metallic Skeleton*.

Very respectfully yours,

MARY RANKIN.

No. 8 Union Place, New York, August 13th, 1850.

MESSRS. YERGER AND ORD,

GENTLEMEN :—Agreeably to your request, I subjoin a few remarks in reference to the case of Master George Black, whose legs were both run over by a passenger car in November last; they both mortified extensively, and the left was so completely maimed that nothing but its amputation could save his life, the right ankle and leg were so extensively affected by sloughing that I was thought by some gentlemen not to be justified in attempting to save it at so great risk of life.

I have now the gratification to see him *walking with great comfort and ease* through the facilities which your ingenious contrivance has furnished him.

The *artificial skeleton leg* which you manufacture, is in *lightness, durability, neatness, and comfort* to the patient, altogether *superior* to any other form of false leg I have yet seen.

The patient and his friends are *all* exceedingly gratified with the remarkable restoration which its adoption has effected.

ABM. L. COX, M. D.,
Professor of Surgery in the New York Medical College.

Extract of a letter recently received by us.

"I see frequently the friend of mine you made a leg for a short time since, and cannot let the opportunity slip of letting you know how well it answers. When the limb was put on, the patient walked off just as if she had her *natural* feet, or nearly so; it is really astonishing how well it answers the purpose, and no person can conceive the situation of the lady, she being confined to her room for twelve years. It would take two sheets of foolscap to express how much she is pleased with it, and a large sum of money to purchase it from her, *provided she could not get another one of the same kind.*

You will recollect I told you of the end of her stump being very tender, so much so that she could not bear to have any thing touch it; I asked her when I was there, how the stump was now, and she declared "she could not tell she had one, *she felt no sensation of pain* in it, and had no uneasiness with it"—this is another good effect of your artificial limb.

The following case of Mr. Mann's, is perhaps one of the most remarkable on record. The cut represents him as he appeared with the limbs applied.



Sorrell Horse P. O., Pa., April 1st, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—Deeming a statement of my case an act of justice to yourselves,

and to *all* who feel interested in relieving the sufferings of humanity, I herein subjoin a few remarks for the benefit of all whom it may concern.

It having been my lot to be *born without feet*, my situation was such as to almost incapacitate me from walking or business avocations. Having heard of the Metallic Skeleton Leg manufactured by you, I concluded, after mature deliberation, *to order a pair of them*, and since I have worn them, the results have been such as to almost exceed belief. I am firmly supported, and *perfectly comfortable*; and *can walk* and accomplish many things which I did not expect or suppose could have been done on *artificial limbs*.

All who are acquainted with the nature of my occupation, (that of a farmer,) are well aware of the active exercise and hard manual labor required to follow it. I would merely say to such, that I am now near, if not quite, what they term a *full hand*.

I can ascend or descend a flight of stairs of almost any height, *one foot over the other*, with incredible rapidity, and the indications are such, that in the course of a short period, *few, if any*, will ever discover that I am in part a *mechanical made man*.

It would, perhaps, be well to mention that previous to my engaging your legs, I examined a variety of legs of *other make*, and conversed with gentlemen of considerable experience in the wearing of *different kinds*, and there was a unanimity of opinion that the limbs manufactured by you possessed many advantages that could not be obtained by *any other artificial leg* in use.

Yours, respectfully,

AARON MANN.

Danbury, Ct., September 13th, 1850.

MESSRS. YERGER AND ORD,

GENTLEMEN:—The Metallic Skeleton Leg which you made for me some time since, I have worn constantly, and can walk at least twice the distance with less exertion than with the *willow leg* I have been wearing. I am perfectly easy in it, something that I never expected of an artificial leg, from the fact that the one I formerly wore (which was recommended to be *superior to all others*) for nine years, the most part of the time in perfect agony. For the benefit of those who need an artificial leg, I can recommend the Metallic Skeleton to be far superior to *any of the many* I have examined within the last ten years, not only for comfort and lightness, but for its natural motion, strength, and durability.

Yours, respectfully,

DAVID NORRIS.

Staunton, Va., December 7th, 1850.

MESSRS. YERGER AND ORD,

GENTLEMEN:—I have deferred writing to you in order to give your Improved Artificial Leg a fair trial, and I am fully satisfied that it is the *best artificial leg* now in use, and without hesitation I recommend it to all those who may be so unfortunate as to lose their natural limb. I can attend to my business as well as ever, and I do assure you that I would not be without your *Skeleton Leg* for any amount of money. The country here is exceedingly hilly, and I can climb hills and descend mountains with considerable rapidity. My advice to all the *legless* is, procure Yerger and Ord's *Metallic*, and *WALK*.

With much respect, &c.,

C. F. HUDSON.

Philadelphia, April 12th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—It gives me pleasure to be able to state to you that I am now wearing the full length limb which you made for me, and although my stump is but *five inches* in length and very weak, I can move along admirably, and with little or no fatigue.

You cannot imagine how proud I felt when (*after fifteen years without one*) I mounted two legs again; nor what were my feelings when, after a few trials, I *walked*—aye, walked a full mile with but an ordinary cane to aid me.

You may wonder why I remained fifteen years without a leg. I will tell you. Ten years ago, I called on Mr. Thomas, to examine *his* artificial limb, and found it wanting. So also the “Anglesea,” and a leg made by a gentleman in Philadelphia, *all* of which I found to be *weighty and unweildly*, and wanting in what I deemed an essential requisite—*ventilation*, and would not suit my *paticular* case. I therefore made up my mind that I would have to “*halt upon crutches*” for life, or invent a leg myself. I was (if you remember I told you) thus engaged when hearing of your invention. I called upon you, and no sooner did I see your *Patent Metallic Skeleton Leg*, than I pronounced it the very “*Ultima Thule*” of my hopes. There was combined *lightness, neatness*, and, most of all, *ventilation*, in a scientific and artistical manner.

What could I do but order one?—I did so—and am happy in being able to say to the afflicted—“*Go thou and do likewise.*”

Yours, truly,

E. JARED MEGONEGAL.

Philadelphia, April 8th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—It affords me pleasure to add my testimony in favor of your *Patent Metallic Skeleton Leg*. I have used the one made for me, now about *seven months*. I find it perfectly comfortable, and am able to *walk all day* without any inconvenience. My amputation is on the thigh, and the length of the stump *seven inches*.

Yours, respectfully,

FRANCIS AIKENS

Philadelphia, April 17th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—It affords me pleasure in being able to state that the *Patent Skeleton Leg* you made for my little son, answers so well, that he scarcely seems to feel the loss of his *natural leg*. He is *perfectly* comfortable, and *does not* need or use a cane or support of any description to assist him in walking; and I have no hesitation in saying that I believe the *Metallic Skeleton* to be the *best artificial leg* I have ever seen.

Yours, respectfully,

LEWIS G. BULL.

Philadelphia, April 18th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—I take pleasure in expressing my satisfaction with your artificial “*Skeleton Leg*,” which I now have in use. Having worn it since December last, I am competent to judge of its merits, and would recommend it to persons who, like myself, have had the misfortune to lose a limb.

My case was considered by my friends beyond the aid of human ingenuity, in consequence of the extreme shortness of my stump, it being only *three and a half inches* in length. In three weeks I dispensed with the use of crutches, and have since been walking *comfortably and safely*, with no other aid than that of a cane.

You are at liberty to refer any person to me, who may desire to witness its operation.

I remain yours, &c.,

SAMUEL W. BUDD.

Jacksonville, Morgan county, Illinois, April 21st, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—No doubt you feel anxious to know my opinion of the *Patent Metallic Skeleton Leg* you made for me. I will tell you that I consider it the *lightest, neatest, most durable*, and by far the most *superior artificial leg* I have ever seen. The life-like motion and simplicity of construction, cannot fail to strike the beholder with admiration.

From the sincerity of a grateful heart, for the benefit I have derived from its use, I recommend it to my fellow-sufferers, many of whom have been humbugged by the *color*, instead of examining the mechanical operation of artificial legs. It will afford me pleasure to impart any information in my power, by addressing as above.

Yours, truly,

S. W. NEELY.

Hill Grove, Va., May 12th, 1851

MESSRS. YERGER AND ORD,

GENTLEMEN:—Nothing could any longer cause me to keep from the afflicted what I am in possession of, in relation to your *Skeleton Artificial Leg, and Anatomical Machinery*.

It affords me pleasure to be able to state that during a visit to Philadelphia, I saw to my great gratification a number benefited by the use of your apparatus, and also gentlemen wearing your *Patent Skeleton Leg*, with from *four inches of stump* on the thigh down to *four inches* below the knee, all of whom were doing well.

The *leg* you made for me I have been wearing constantly since the *fifth of November last*, to the utter astonishment of all who knew me, and numerous acquaintances, who had not seen me from the time I lost my natural leg until they again saw me *walking* on one of *your manufacture*. In fact I have to exhibit it to many to satisfy them that it is artificial in reality.

I would further state that I visited the Exhibition of the Franklin Institute, and after a thorough and impartial examination of the *limbs there deposited*, came to the full conclusion that the one exhibited by yourselves was far superior to anything in the way of artificial limbs I had ever seen, and *experimentally* will say that I am getting on with almost entire ease and comfort—fully realizing all I expected.

Yours, truly,

CHAS. W. ADAMS

Trout Run, Lycoming county, Pa., May 13th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—I deem it almost unnecessary to add my testimony to the already accumulated evidence in favor of your *Patent Metallic Skeleton Artificial Leg*, but thinking it may be the means of directing a fellow-sufferer to the *right place*, would say I have worn the *full length* leg obtained from you *more than a year* since with *entire satisfaction*, being enabled to walk and attend to business in a manner that I am compelled to say it not only far exceeds my hopes, but it is *life* itself compared to other artificial legs I have examined.

Yours, very respectfully,

JESSE L. HAMILTON.

Marlton, New Jersey, May 26th, 1851.

MESSRS. YERGER AND ORD,

GENTLEMEN:—From the entire satisfaction which your *Patent Metallic Skeleton Leg* has given me, I have no hesitation in recommending it to those who, like myself, have had the misfortune to lose a limb. I have examined limbs of other make, but do not think any so completely adapted to supply the loss of the natural limb as the one manufactured by you.

Very respectfully yours,

THOMAS M. HARRISON

EDITORIAL NOTICES.

From the New York Era.

What, ho! ye afflicted individuals—run your eyes over the advertisement of Messrs. Yerger and Ord, of Philadelphia, manufacturers of the Metallic Skeleton Artificial Leg, Graduating Spring-Ankle Supporter, and Surgical Machinery for the Treatment of Deformities of every description. Yerger and Ord are the inventors and patentees of these instruments, and every article they manufacture is of the most superior kind of workmanship, and never failing in its purpose. During a recent visit to Philadelphia, we were politely conducted through the manufactory, by the enterprising proprietors, and were both surprised and gratified to witness the number of casts of deformed limbs, and the explanations afforded of their successful treatment by machinery. The success of their legs is almost beyond belief, being the most perfect things of the kind ever invented, approaching very nearly to nature. We take pleasure in inviting the attention of the afflicted to their establishment.

From the New York Times.

Mr. G. W. Yerger of the firm of Yerger and Ord, recently exhibited to us one of his Metallic Skeleton Artificial Legs, and we do not hesitate to say that the invention is one of the most useful of the present age—also, one of his Ankle-Supporters, which Mr. Yerger himself wears, having the misfortune to have one of his ankles crushed in such a manner as to entirely deprive him of the use of it. These legs have all the action of the natural limb, are made entirely of steel, light, durable, and answering in almost every respect all the uses of the best conditioned legs—a glance will do more to recommend this invention than volumes of words.

From the New York American Artisan.

We have been shown an Artificial Leg, manufactured by Messrs. Yerger and Ord, of Philadelphia, that surpasses any thing we have ever seen; it is made of a series of cast steel ribs, with flexible spring joints, that imitate nature with wonderful perfection.

A gentleman wearing one of these beautiful articles, called on us, and the way he succeeded in getting about would do honor to many a “full limbed biped.” We do the afflicted and legless a special favor by calling attention to this article.

From the Philadelphia American Mechanics' Advocate.

EVERY DAY BRINGS SOMETHING NEW.—The inventive genius of the present age is truly remarkable. Every day brings to us some new improvement over the old way of doing things, developing the unlimited capacities of the human intellect. Among the many remarkable inventions of our time, is Yerger & Ord's patent leg, the uses and description of which will be found in an article from the Philadelphia Lancet, which we have placed in our paper this week, to which we would in a special manner call the attention of our readers. We do not write this, with any idea of *puffing* Messrs. Yerger & Ord, expecting, as many do, to realize a profit for their pains; on the contrary, we notice the invention as one unfolding the genius of our own people, as an invention that belongs exclusively to America, designed and carried into successful operation by an American mechanic. It is the opinion of the best, most learned, and experienced of our medical faculty, that this leg has no equal or superior in the world. Messrs. Yerger & Ord have done what the medical faculty have never done,—have carried into successful operation, what all other leg-makers tried in vain to accomplish,—that is, make a person, who has been deprived of both legs, walk perfectly natural and easy. Heretofore wooden legs, cork legs, and a variety of new inventions have been tried and used, but this leg, owing to its lightness, its principles of ventilation, and its natural application to supply, in all respects, the loss of the real limb, will beyond doubt succeed all others. If anything should deprive us of our legs, we should go to Yerger & Ord's at once, and have a pair buckled on, and then we could as ever try to collect our unpaid bills.

From the Philadelphia Daily Sun.

The Metallic Skeleton Leg, made by Messrs. Yerger and Ord, is attracting much attention. It is certainly a meritorious invention, and has the favorite opinion of all the scientific men who have examined it in all its workings. The motion of the foot and toes is almost as easy as nature; the strength and graceful form of the whole affair, excite the astonishment of every body.

From the Commercial Emporium.

We would invite attention to the establishment of Messrs. Yerger and Ord, the inventors and patentees of the Metallic Skeleton Leg. We called upon Messrs. Yerger and Ord, a short time since, to view a specimen, and although we have seen a number that were meritorious, we must acknowledge that for *simplicity of formation, lightness, durability, and ornamental finish*, it is far superior.

From the Philadelphia Sun.—Notice of the Franklin Institute.

The Metallic Skeleton Leg, and Ankle Supporter, by Mr. George W. Yerger and Co., of this city, which may be seen in a case in the northern recess, upper saloon, proves to be, on inspection, one of the prettiest specimens of workmanship that we have yet seen. The springs are neatly adjusted—and so admirably arranged as to produce the most astonishing effect. Such a leg is a fine thing—a person might dance a hornpipe with a pair of them, or dash off into a mazurka or a polka, with all the ease in the world. Had Achilles himself had the honor of this *great invention*, the father of song might have tuned his lyre to the praises of another victor.

From the Public Ledger.—Notice of the Franklin Institute.

The Metallic Skeleton Artificial Leg, invented by George W. Yerger, is light, neat, and durable, and approaches as near as can be to the natural motion, particularly that of the ankle joint. It is highly recommended by the medical faculty and scientific men of this city, who have given the subject their attention.

From the Pennsylvania Inquirer, Nov. 24, 1849.

A USEFUL ARTICLE.—We invite attention to the advertisement of Messrs. Yerger and Ord, manufacturers of the celebrated Metallic Skeleton Artificial Leg. We have seen specimens of this invention. It is really one of the most ingenious and useful that has ever been brought to public notice. It has been examined by some of our most distinguished physicians and surgeons, whose testimony in its favor, is of the most conclusive character.

From the Pennsylvania Inquirer.

YERGER AND ORD'S ARTIFICIAL LEG, AND ANKLE SUPPORTER.—Two gentlemen called at our office yesterday, for the purpose of enabling us to examine the operation of these truly useful and ingenious contrivances. One of them, about eleven years since, had his left leg torn off just below the knee, while engaged in a machine shop. He was incapacitated from walking for about three months, and then resorted to crutches. He found them very inconvenient, and then was induced to use what is called a straight peg leg, and he hobbled through the streets after a fashion. A short time since, he heard of the above invention, and immediately obtained one of the Metallic Skeleton Artificial Legs, which he has ever since used with complete satisfaction. He is now able to stand and work at a lathe all day, and to use either foot while so engaged. The other gentleman, about five years since, had his left ankle crushed by an immense piece of iron falling upon it. The accident was a shocking one; he was compelled to use crutches for about two years. He then resorted to Mr. Yerger's ankle supporter, and is now able to walk so well by means of this instrument, that a spectator, unacquainted, would not discover the slightest imperfection in his gait.

We could publish a volume of letters and notices similar to the foregoing, but our space is limited, and we must pass to the notice of other articles, willing to let the leg rest upon its merits, feeling assured that a fair and impartial examination is only necessary to convince all that need a limb, that it can be adapted to their case, and worn with a comfort heretofore unknown in the history of artificial limbs.

Persons at a distance can obtain a blank card for taking measure, by writing to us (post paid :) but it would be preferable, at all times, to have them present when the limb is completed.

The next article to which we would invite particular attention is—

Yerger and Ord's Patent Ankle Supporter.

The only instrument known that will give support to a fractured or weak ankle, and allow a flexible motion of from a sixty-fourth part of an inch to the full sweep of the ankle joint. The broad lacing represented throws the weight of the body upon the calf of the



leg, leaving the joint entirely free from pressure. The front and back springs, connected with stops, work upon the ankle ring; by which means the wearer can regulate it to suit his comfort. The following circumstance, which gave rise to the invention, will show its operation:—Mr. George W. Yerger, the senior partner of this concern, in April, 1845, had his leg and ankle crushed by a water-wheel shaft, weighing over fifteen hundred pounds, rolling out of a lathe; by which accident he was confined to his bed for three months, and then was obliged to walk with crutches for nearly three years: during which time he applied to every known source for an instrument that would enable him to dispense with them, but in vain. Finally he was compelled to resort to his own ingenuity, which, after various experiments, produced the above. Previous to the application of which, the joint was stiff, and the foot was so disabled as to be incapable of sustaining the least weight without causing him the most excruciating pain. He has worn it now about three years during all of which time it has created an artificial joint of about one inch motion, and brought into active use a limb which was before entirely useless—without his suffering the least inconvenience.

It would be almost impossible to describe the different varieties of injuries, resulting in the loss of the ankle joint, and disabling the foot, where this instrument can be applied with the most astonishing results. We will now notice, briefly, our—

Fig. 6 is a contraction of the knee; the causes of which are almost too numerous to mention. It is curable in all cases where there is not a bony union of the joint.

Fig. 7 represents a contraction of the arm, which is also curable by the use of our improved extension apparatus.

6.



7.



Figs. 8 and 9 represent two cases of lateral curvature of the spine; one commencing just above the hips, presenting a fulness on one side, and causing an awkward shuffling gait; the other, a projecting shoulder blade, and fulness of one side of the breast; both of which are much benefited by properly constructed instruments.

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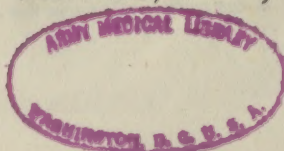


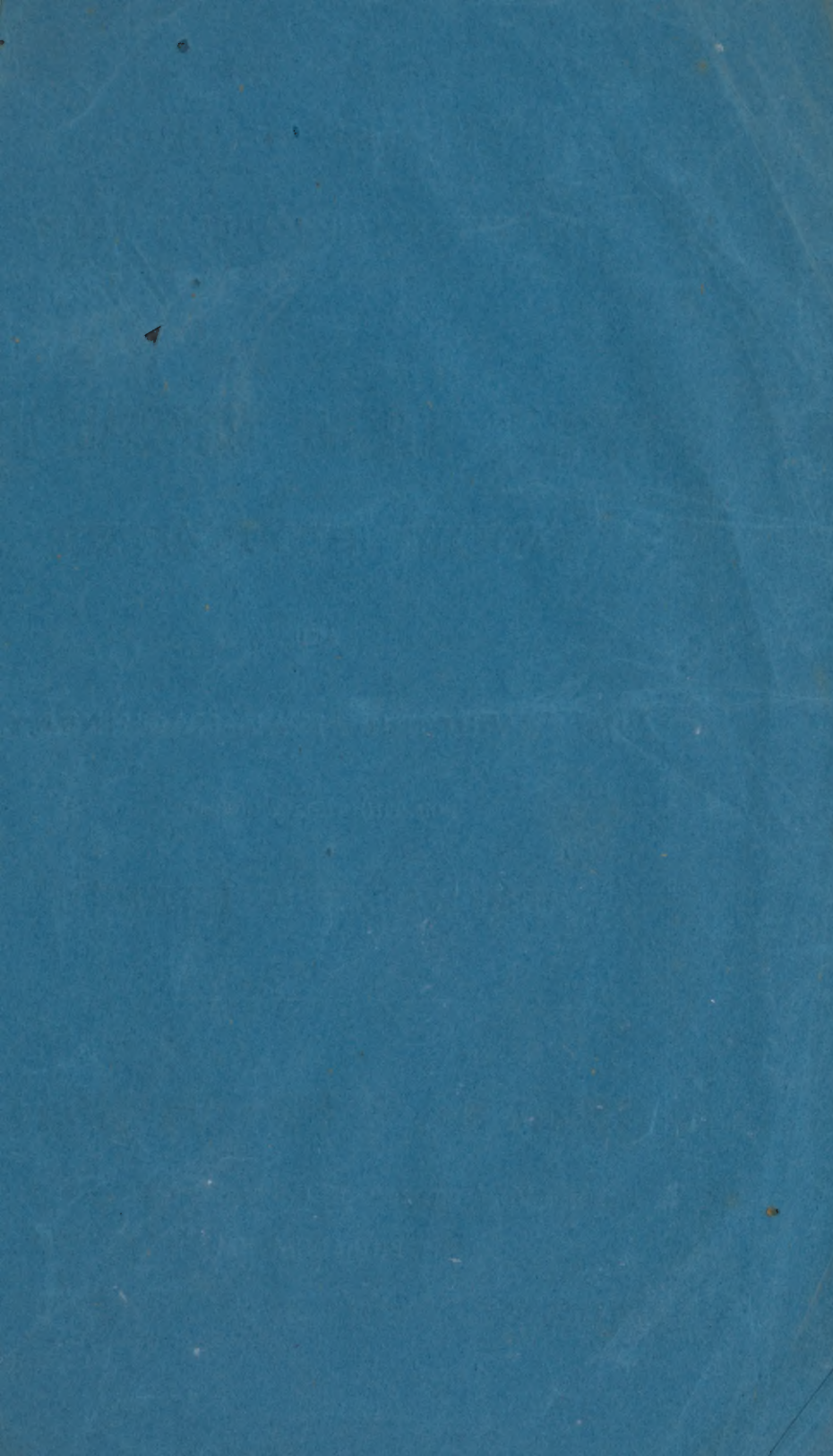
In conclusion we would say that we are fully prepared to *invent and adapt* machinery to every variety of deformity, and will, whenever we undertake a case, guarantee the instruments to answer fully the purpose for which they are intended.

The mechanical department will be under the exclusive charge of Mr. George W. Yerger, whose well known success as inventor of surgical apparatus, is sufficient guaranty that he will be able to meet any case of deformity, no matter how difficult or complicated.

Every information in reference to the metallic leg, ankle supporter, and instruments for deformity, will be given, on application personally, or by letter (post paid) to No. 7 Phoenix Block, South-West corner of Second and Dock Sts., Philadelphia.

GEORGE W. YERGER, } Proprietors.
JOHN F. ORD,





YERGER & ORD,
PATENTEES AND MANUFACTURERS
OF THE
METALLIC SKELETON ARTIFICIAL LEG,
ANKLE SUPPORTER,
AND
IMPROVED SURGICAL MACHINERY,
FOR THE TREATMENT OF
EVERY VARIETY OF DEFORMITY.

Office No. 7 Phoenix Block,
South-West corner of Second and Dock Sts.,
PHILADELPHIA.